

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0082

New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2005	5VPXL16.1ACC	16.12	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg Electronic Control N		Generator Set			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED EMISSION			EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY	!	нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
450 ≤ kW < 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	-	-	5.5	1.5	0.13	-	-	_

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of December 2004.

Allen Kons, Chief

Mobile Source Operations Division

Engine Model Summary Form

AB Volvo Penta Manufacturer:

Nonroad CI Engine category:

EPA Engine Family: 5VPXL16.1ACC

Mfr Family Name: TAD1641/42 GE 1500RPM

New Submission Process Code:

4-4-014-0082 Attachment

8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	DOI, TC, CAR, ECM	
8.Fuel Rate: (lbs/hr)@peak torque	NA	NA
7.Fuel Rate: mm/stroke@peak torque	AN	NA
6.Torque @ RPM (SEA Gross)	2609	2297
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		:
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	:	1641 GE 649@1500 374
3.BHP@RPM (SAE Gross)	733@1500	649@1500
2.Engine Model	TAD 1642 GE	Ò
1.Engine Code	-	2 TAI